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| PPLICATION NO.               | FILING DATE   | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO.  | CONFIRMATION NO |
|------------------------------|---------------|----------------------|----------------------|-----------------|
| 09/663,045                   | 09/15/2000    | Jeffrey Scott Kuskin | 73139/0269870        | 3408            |
| 759                          | 90 12/29/2004 |                      | EXAM                 | NER             |
| Pillsbury, Wir               | _             |                      | DUONG,               | FRANK           |
| 1600 Tyson Bou<br>McLean, VA |               |                      | ART UNIT PAPER NUMBE |                 |
| Michelli, VA 2               | -2102         |                      | 2666                 |                 |

Please find below and/or attached an Office communication concerning this application or proceeding.

|   | Application No.   | Applicant(s)  |        |  |  |  |  |
|---|---|---|--------|--|--|--|--|
|   | 09/663,045  | KUSKIN ET AL.   | /      |  |  |  |  |
| Office Action Summary   | Examiner  | Art Unit  | 78     |  |  |  |  |
|   | Frank Duong   | 2666  | -46    |  |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply  | ears on the cover sheet with the  | correspondence ad   | dress  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONI | mely filed ys will be considered timely the mailing date of this co ED (35 U.S.C. § 133). |        |  |  |  |  |
| Status  |   |   |        |  |  |  |  |
| 1) Responsive to communication(s) filed on 19 Au  | <u>ugust 2004</u> .   |   |        |  |  |  |  |
| 2a) ☐ This action is FINAL. 2b) ☐ This  | This action is FINAL. 2b) ☐ This action is non-final.   |   |        |  |  |  |  |
| 3) Since this application is in condition for allowar   | ) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is   |   |        |  |  |  |  |
| closed in accordance with the practice under E  | closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.   |   |        |  |  |  |  |
| Disposition of Claims   |   |   |        |  |  |  |  |
| 4)⊠ Claim(s) <u>1-37</u> is/are pending in the application.   |   |   |        |  |  |  |  |
| 4a) Of the above claim(s) is/are withdrawn from consideration.  |   |   |        |  |  |  |  |
| 5) Claim(s) is/are allowed.   |   |   |        |  |  |  |  |
| 6)⊠ Claim(s) <u>1-37</u> is/are rejected.   | 6) Claim(s) <u>1-37</u> is/are rejected.  |   |        |  |  |  |  |
| 7) Claim(s) is/are objected to.   |   |   |        |  |  |  |  |
| 8) Claim(s) are subject to restriction and/or   | r election requirement.   |   |        |  |  |  |  |
| Application Papers  |   |   |        |  |  |  |  |
| 9) The specification is objected to by the Examine  | r.  |   |        |  |  |  |  |
| 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  |   |   |        |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |   |   |        |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |   |   |        |  |  |  |  |
| 11) ☐ The oath or declaration is objected to by the Ex  | aminer. Note the attached Office  | e Action or form PT   | O-152. |  |  |  |  |
| Priority under 35 U.S.C. § 119  |   |   |        |  |  |  |  |
| 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori   | s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).  | tion No<br>red in this National   | Stage  |  |  |  |  |
| A44 - ch (- )   |   |   |        |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  | 4) Interview Summary  | / (PTO-413)   |        |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date   |   |   |        |  |  |  |  |
| 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date  | 5)  Notice of Informal I  | Patent Application (PTC   | )-152) |  |  |  |  |
| S. Patent and Trademark Office  |   |   |        |  |  |  |  |

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#### **DETAILED ACTION**

1. This Office Action is a response to communications dated 08/19/04. Claims 1-37 are pending in the application.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Hioe et al (USP 6,341,145) (hereinafter "Hioe").

Regarding claim 1, <u>in accordance with Hioe reference entirety</u>, Hioe discloses a hardware system (Figs. 2-3) for performing media access control functions between a host central processing unit (101) and a network (207), the system comprising:

a buffer interface (300 or 202) (col. 6, lines 33-34, interface section 202 includes elements 300 and 330) that sends frames to the host central processing unit and receives frames from the central processing unit (col. 6, lines 45-57 and thereinafter);

a frame transmitter (203 and 210) that includes a transmit buffer (306-310 and 302-304) that receives frames from the buffer interface and sends frames to the network

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(col. 6, line 63 to col. 7, line 7, Hioe discloses data from input interface 300 is transmitted to WeP 302 at a predetermined time and incorporated into a packet for radio transmission. After that the packet is coded, error control coded and encrypted if deemed necessary. Then, a digital signal is converted into an analog signal by a baseband modulation block (BB-mod) 306 to generate an analog waveform for modulating into an IF signal, then upconverted into an RF signal for transmission);

a frame receiver (205 and 206) that includes a receive buffer (336-340 and 332-334) that receives frames from the network and sends frame to the buffer interface (col. 7, lines 13-19, Hioe discloses the RF signal is received at 340, downconverted into IF signal at 338, demodulated into digital signal at 336, decrypted, error correction and encoding at 334. In block 332, digital signals are taken out of wireless packet and arranged in the correct order and held in an output interface 330 until they are output); and

an encryption/decryption block (304 and 334) that sends and receives frame between the transmit buffer and the receive buffer (col. 6, lines 60-63 and col. 7, lines 19-21).

Regarding **claim 2**, in accordance with Hioe reference entirety, Hioe discloses a method (Figs. 2-3) for processing frames from a network to a host in a media access control layer with hardware operations, the method comprising:

receiving an incoming frame from the network (col. 7, lines 10-27 and thereinafter); and

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processing, using operations implemented by hardware in an integrated circuit (col. 5, line 8, functional block), the incoming frame for time-critical functions the time critical functions (col. 7, lines 10-27 and thereinafter) including:

sending an outgoing frame corresponding to the incoming frame to the host (*col.* 7, lines 10-27);

formulating time-critical response (col. 7, lines 35-42 and thereinafter); accumulating statistics (col. 7, lines 42-50 and thereinafter); and updating a media access control state (col. 7, lines 50-57 and thereinafter).

Regarding **claim 3**, in addition to the features recited in base claim 1 (see rationales discussed above), Hioe further discloses wherein the frame transmitter includes a transmit state machine (312), the frame receiver includes a receive state machine (342), and further including:

a cyclic redundancy code block (304 and 334) that receives frames from a receive state machine (342) and a transmit buffer and sends frames to the transmit state machine (312) (col. 6, lines 60-63 and col. 7, lines 19-21); and

a timer block (not shown; inherent )that control timing for frames that are respectively sent from and received by the system (col. 10, lines 40-41).

Regarding **claim 4**, in addition to the features recited in base claim 1 (see rationales discussed above), Hioe further discloses wherein the frame receiver further includes a filtering block for filtering frames (*Fig. 10B and col. 12, lines 37-53 and thereinafter*).

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Regarding **claim 5**, in addition to the features recited in base claim 1 (see rationales discussed above), Hioe further discloses wherein the frame receiver further includes a retry operations block for determining when retransmission of the particular frame is needed (*col. 9*, *lines 41-62*; *col. 10*, *lines 23-30 and thereinafter*).

Regarding **claim 6**, in addition to the features recited in base claim 1 (see rationales discussed above), Hioe further discloses wherein the frame transmitter include an acknowledgement block for determining that a particular frame was anticipated and sending an acknowledgement message corresponding thereto (*col. 5*, *lines 63-66 and thereinafter*).

Regarding **claim 7**, in addition to the features recited in base claim 1 (see rationales discussed above), Hioe further discloses wherein the frame transmitter further includes a special frames generation block (*see Figs. 9A-B*).

Regarding **claim 8**, in addition to the features recited in base claim 7 (see rationales discussed above), Hioe further discloses wherein the special frames generation block includes means for generating beacons (*not shown; a pilot signal or channel is inherent in TDMA or CDMA wireless system*).

Regarding **claim 9**, in addition to the features recited in base claim 1 (see rationales discussed above), Hioe further discloses a timer block that controls timing for frames that are sent from and received by the system (*col. 9*, *line 36 and col. 10*, *lines 40-41*).

Regarding **claim 10**, in addition to the features recited in base claim 9 (see rationales discussed above), Hioe further discloses wherein the frame transmitter

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includes a transmit state machine (312), the frame receiver includes a receive state machine (342), and further including:

a timer block (not shown; inherent )that control timing for frames that are respectively sent from and received by the system (col. 10, lines 40-41).

Regarding **claim 11**, in addition to the features recited in base claim 9 (see rationales discussed above), Hioe further discloses wherein the frame receiver further includes a filtering block for filtering frames (*Fig. 10B and col. 12, lines 37-53 and thereinafter*).

Regarding **claim 12**, in addition to the features recited in base claim 9 (see rationales discussed above), Hioe further discloses wherein the frame receiver further includes a retry operations block for determining when retransmission of the particular frame is needed (*col. 9*, *lines 41-62*; *col. 10*, *lines 23-30 and thereinafter*).

Regarding **claim 13**, in addition to the features recited in base claim 9 (see rationales discussed above), Hioe further discloses wherein the frame transmitter include an acknowledgement block for determining that a particular frame was anticipated and sending an acknowledgement message corresponding thereto (*col. 5*, *lines 63-66 and thereinafter*).

Regarding **claim 14**, in addition to the features recited in base claim 9 (see rationales discussed above), Hioe further discloses wherein the frame transmitter further includes a special frames generation block (see Figs. 9A-B).

Regarding **claim 15**, in addition to the features recited in base claim 14 (see rationales discussed above), Hioe further discloses wherein the special frames

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generation block includes means for generating beacons (not shown; a pilot signal or channel is inherent in TDMA or CDMA wireless system).

Regarding **claim 16**, in accordance with Hioe reference entirety, Hioe discloses a hardware system (Figs. 2-3) for performing media access control functions between a host central processing unit (101) and a network (207), the system comprising:

a buffer interface (300) that sends frames to the host central processing unit and receives frames from the central processing unit (col. 6, lines 45-57 and thereinafter);

a frame transmitter (203) that includes a transmit buffer (306-310) that receives frames from the buffer interface and sends frames to the network (col. 6, line 63 to col. 7, line 7);

a frame receiver (205) that includes a receive buffer (336-340) that receives frames from the network and sends frame to the buffer interface (*col. 7, lines 13-19*); and

a timer block (*not shown; inherent* )that control timing for frames that are respectively sent from and received by the system (*col. 10, lines 40-41*).

Regarding **claim 17**, in addition to the features recited in base claim 16 (see rationales discussed above), Hioe further discloses wherein the frame transmitter includes a transmit state machine (312), the frame receiver includes a receive state machine (342), and further including:

a cyclic redundancy code block (304 and 334) that receives frames from a receive state machine (342) and a transmit buffer and sends frames to the transmit state machine (312) (col. 6, lines 60-63 and col. 7, lines 19-21).

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Regarding **claim 18**, in addition to the features recited in base claim 16 (see rationales discussed above), Hioe further discloses wherein the frame receiver further includes a filtering block for filtering frames (*Fig. 10B and col. 12, lines 37-53 and thereinafter*).

Regarding **claim 19**, in addition to the features recited in base claim 16 (see rationales discussed above), Hioe further discloses wherein the frame receiver further includes a retry operations block for determining when retransmission of the particular frame is needed (*col. 9*, *lines 41-62; col. 10*, *lines 23-30 and thereinafter*).

Regarding **claim 20**, in addition to the features recited in base claim 16 (see rationales discussed above), Hioe further discloses wherein the frame transmitter include an acknowledgement block for determining that a particular frame was anticipated and sending an acknowledgement message corresponding thereto (*col. 5*, *lines 63-66 and thereinafter*).

Regarding **claim 21**, in addition to the features recited in base claim 16 (see rationales discussed above), Hioe further discloses wherein the frame transmitter further includes a special frames generation block (see Figs. 9A-B).

Regarding **claim 22**, in addition to the features recited in base claim 21 (see rationales discussed above), Hioe further discloses wherein the special frames generation block includes means for generating beacons (*not shown; a pilot signal or channel is inherent in TDMA or CDMA wireless system*).

Regarding claim 23, in addition to the features recited in base claim 16 (see rationales discussed above), Hioe further discloses an cryption/decryption block (304)

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and 334) that sends and receives frame between the transmit buffer and the receive buffer (col. 6, lines 60-63 and col. 7, lines 19-21).

Regarding **claim 24**, in addition to the features recited in base claim 2 (see rationales discussed above), Hioe further discloses wherein the time critical function of formulating time-critical responses includes formulating an outgoing response frame for transmission to the network (*col. 7*, *lines 35-42 and thereinafter*).

Regarding **claim 25**, in addition to the features recited in base claim 24 (see rationales discussed above), Hioe further discloses wherein the time critical function of formulating an outgoing response frame include transmitting the outgoing response frame to the network (*col. 7*, *lines 35-42 and thereinafter*).

Regarding **claim 26**, in addition to the features recited in base claim 25 (see rationales discussed above), Hioe further discloses wherein the method of formulating an outgoing response frame includes generating a special frame (see Figs. 9A-B).

Regarding **claim 27**, in addition to the features recited in base claim 26 (see rationales discussed above), Hioe further discloses wherein the special frame includes a beacon (not shown; a pilot signal or channel is inherent in TDMA or CDMA wireless system).

Regarding **claim 28**, in addition to the features recited in base claim 2 (see rationales discussed above), Hioe further discloses wherein the method of formulating an outgoing response frame includes receiving an incoming frame from the host central processing unit (101) corresponding to the outgoing response frame (*col. 5*, *line 10 and thereinafter*).

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Regarding claim 29, in addition to the features recited in base claim 2 (see rationales discussed above), Hioe further discloses wherein the time critical functions implemented by hardware operations include decrypting the incoming frame.

Regarding claim 30, in addition to the features recited in base claim 2 (see rationales discussed above). Hioe further discloses wherein the time critical functions implemented by hardware operations include determining whether retransmission of a particular frame is needed (col. 9, lines 41-62; col. 10, lines 23-30 and thereinafter).

Regarding claim 31, in addition to the features recited in base claim 2 (see rationales discussed above), Hioe further discloses wherein the time critical functions implemented by hardware operations include determining whether a particular frame was anticipated and sending an acknowledgement message corresponding thereto (col. 5, lines 63-66 and thereinafter).

Regarding claim 32, in addition to features recited in base claim 1 (see rationales discussed above), Hioe further discloses wherein the buffer interface, frame transmitter, frame receiver and encryption/decryption block implemented certain functions of a media access control (MAC) sublayer in accordance with IEE 802.11 (col. 13, lines 57-65, Hioe et al. discloses the invention is compliant with CDMA method by frequency hopping. Thus, it is inherent that the invention is compliant with IEEE 802.11, a frequency hopping based protocol).

Regarding claim 33, in addition to features recited in base claim 16 (see rationales discussed above), Hioe further discloses wherein the buffer interface, frame transmitter, frame receiver and timer block implemented certain functions of a media

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access control (MAC) sublayer in accordance with IEE 802.11 (col. 13, lines 57-65, Hioe et al. discloses the invention is compliant with CDMA method by frequency hopping. Thus, it is inherent that the invention is compliant with IEEE 802.11, a frequency hopping based protocol).

Regarding **claim 34**, in addition to features recited in base claim 2 (see rationales discussed above), Hioe further discloses wherein the time-critical functions comprise certain functions of a media access control (MAC) sublayer in accordance with IEE 802.11 (col. 13, lines 57-65, Hioe et al. discloses the invention is compliant with CDMA method by frequency hopping. Thus, it is inherent that the invention is compliant with IEEE 802.11, a frequency hopping based protocol).

Regarding **claim 35**, in addition to features recited in base claim 1 (see rationales discussed above), Hioe further discloses wherein the buffer interface, frame transmitter, frame receiver and encryption/decryption block are together comprised of a single integrated circuit (*col. 5*, *line 8*, *functional block*).

Regarding **claim 36**, in addition to features recited in base claim 16 (see rationales discussed above), Hioe further discloses wherein the buffer interface, frame transmitter, frame receiver and encryption/decryption block are together comprised of a single integrated circuit (*col. 5*, *line 8*, *functional block*).

Regarding **claim 37**, in addition to features recited in base claim 2 (see rationales discussed above), Hioe further discloses wherein the integrated circuit is comprised of a single integrated circuit (*col. 5*, *line 8*, *functional block*).

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## Response to Arguments

3. Applicant's arguments filed 08/19/04 have been fully considered but they are not persuasive.

In the Remarks of the outstanding response, on page 11 continues to page 13, first paragraph, pertaining the rejection under 35 U.S.C. § 102(e) of claim 1, Applicants give a detail analysis of Hioe reference and argue "Clearly, Hioe's elements 306-310 do not buffer frames. Rather, they receive data packets at a predetermined timing via digital signals and converted the digital signals to analog waveforms ... patentably defines over Hioe for at least this additional reason".

In response Examiner respectfully disagrees and asserts the Hioe reference does indeed clearly anticipate the claimed invention. Perhaps, there identifiers pointing to Hioe's disclosed elements in the Office Action dated 05/19/04 did not satisfy the Applicant's attention. However, the Office Action did clearly state *in accordance with Hioe reference entirety*, Hioe discloses the claimed invention. In respond to the argument that Hioe fails to teach the claimed "a frame transmitter" and "a frame receiver", Examiner would like the Applicants to revisit Hioe reference. At col. 6, line 63 to col. 7, line 7, Hioe discloses data from input interface 300 is transmitted to WeP 302 at a predetermined time and incorporated into a packet for radio transmission. Coding for radio transmission, error control coding, and encryption if necessary are applied to the packeted data by an encoding. The recitation thereat clearly anticipated the claimed limitation of "a frame transmitter (210 or (302-303) and 203) that includes a receive buffer (302 and 304) that receives frames (packets) from the buffer interface (202 and

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300) and sends (203 and 312) frames to the network". At col. 7, lines 13-19, Hioe discloses the RF signal is received at 340, downconverted into IF signal at 338, demodulated into digital signal at 336, decrypted, error correction and encoding at 334. In block 332, digital signals are taken out of wireless packet and arranged in the correct order and held in an output interface 330 until they are output. The recitation thereat clearly anticipated "a frame receiver (205 and 206) that includes a receive buffer (332-334) that receives frames (packets) from the network and sends frame to the buffer interface (202 and 330). Thus, contradistinction to the Applicants' argument, Hioe does indeed anticipate the claimed invention. As for the argument Hioe fails to disclose the encryption block, please see Hioe reference pertaining the description of block 304 at col. 6, lines 62-63 and block 332 at col. 7, lines 18-19.

Also in the Remarks of the outstanding response, on page 13 continues to page 14, first two paragraph, pertaining the rejection of claim 16 as being anticipated by Hioe reference, Applicants argue "In addition to the missing subject matter ... inherency basis for the rejection of claim 16 is improper, and that claim 16 further patentably defines over Hioe for this additional reasons".

In response Examiner respectfully disagrees and asserts the rejection of claim 16 is proper. There is no doubt that Hioe disclosed the claimed invention of base claim 1 (see rationales discussed above). Claim 16 mirrors claim 1; however, claim 16 calls for additional feature of "a timer block that control timing for frames that are respectively sent from and received by the system. Hioe reference does not explicitly show this feature. However, Examiner has asserted in the Office Action this feature is inherent

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because at col. 4, line 45 and thereinafter, Hioe's invention is compliant with Time Division Multiple Access (TDMA) method and system. TDMA system is a clock-based system. Thus, it is inherent that there is a timer or a clock in Hioe's system to keep it in sync. Thus, claim 16 is properly rejected. Should the Applicants dispute the Examiner's position, please further consult technical references on TDMA system that must have a clock in order for it to work.

As for the argument pertaining the newly added feature in the amended claim 2, please see the Office Action. It is noted that the specification of the instant application does not disclose the limitation of "using operations implemented by hardware in an integrated circuit" is a novel and unobvious feature.

As for the arguments pertaining the dependent claims 3-8, 10-15 and 17-23, please see the Office Action for the responses.

As for arguments pertaining the newly added claims 32-37, they do not add new features that deem to be novel and unobvious over the applied art. Please see the Office Action for the responses, accordingly.

Examiner believes an earnest attempt has been made in addressing all of the Applicants' arguments. Due to the amendment fails to place the application in a favorable condition for allowance and the arguments are not persuasive, the rejection is maintained.

#### Conclusion

4. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Frank Duong whose telephone number is (571) 272-3164. The examiner can normally be reached on 7:00AM-3:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Seema Rao can be reached on (571) 272-3174. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Frank Duong Examiner Art Unit 2666

December 17, 2004